

Title (en)  
TERNARY TITANIUM ALLOY, A METHOD FOR PRODUCING THEREOF AND USE OF THE SAME

Title (de)  
TERNÄRE TITANLEGIERUNG, VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)  
ALLIAGE TERNAIRE DE TITANE, SON PROCÉDÉ DE PRODUCTION ET SON UTILISATION

Publication  
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Application  
**EP 22214082 A 20221216**

Priority  
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Abstract (en)  
The invention relates to a ternary alloy of titanium, silicon, and rhenium, and a method for producing the ternary alloy of titanium, silicon, and rhenium, which allows for providing high strength or plasticity, and to its applications.

IPC 8 full level  
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Citation (applicant)  
• FR 2213986 B1 19760514 - GLAZUNOV SERGEI [SU]  
• EP 2687615 B1 20170510 - RTI INT METALS INC [US]  
• US 10183331 B2 20190122 - COURET ALAIN [FR], et al  
• CN 106119603 A 20161116 - XIE GUANGYU  
• R. BOYER, G. WELSCHE, W. COLLINGS: "Materials Properties Handbook : Titanium Alloys", 1994, ASM INTERNATIONAL  
• C. LEYENSM. PETERS: "Titanium and Titanium Alloys. Fundamentals and Applications", 2003, WILEY-VCH VERLAG GMBH & CO. KGAA  
• G. LUTHERING, J. C. WILLIAMS: "Titanium", 2007, SPRINGER  
• D. BANERJEE, J. C. WILLIAMS: "Perspectives on Titanium Science and Technology", ACTA MATERIALIA, vol. 61, 2013, pages 844  
• STOPY TIMETAL 685, TIMETAL 834, TIMETAL 1100, Retrieved from the Internet <URL:https://www.timet.com/literature/datasheets.html>

Citation (search report)  
• [A] US 2004094241 A1 20040520 - KOSAKA YOJI [US], et al  
• [A] FR 2213986 A1 19740809 - GLAZUNOV SERGEI [SU]  
• [A] EP 2687615 A2 20140122 - RTI INT METALS INC [US]  
• [A] JP H08246192 A 19960924 - KOBE STEEL LTD, et al

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